AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph starting at page 1, line 5 with the following amended paragraph:

This invention relates to an acrylic rubber, a crosslinkable acrylic rubber composition comprising the acrylic rubber, and a shaped article made by crosslinking and shaping the erosslinkable acrylic rubber composition.

Please replace the paragraph starting at page 1, line 10 with the following amended paragraph:

An acrylic rubber has good heat resistance and good oil resistance, and therefore, is widely used in an automobile field and related fields as a material for rubber parts which include, for example, sealers such as gasket and packing, hoses, vibration insulators, tubes and belts. For giving an acrylic rubber suitable for these rubber parts, parts have a rubber elasticity is imparted to an acrylic rubber formed by crossling crosslinking an acrylic rubber having active crosslinking sites introduced therein usually by copolymerization of 1 to 5% by weight of a crosslink-forming monomer.

Please replace the paragraph starting at page 1, last line with the following amended paragraph:

The use of monoesters of a butenedioic acid such as maleic acid and fumaric acid as a crosslink-forming monomer has been proposed in, for example, Japanese Unexamined Patent Publication S50-45031 and ibid. H11-92614. Especially it has been reported therein that an acrylic rubber composition comprising an acrylic rubber having copolymerized therein 0.1 to 10% by weight of a mono-lower alkyl ester of fumaric acid, and an aromatic diamine crosslinking agent and a guanidine compound crosslinking aid, gives a crosslinked product causing corrosion of metal in a lesser extent and having high heat resistance. However, this

Docket No.: 1600-0157PUS1

acrylic rubber composition has a problem such that seorch-scorching is liable to occur during

processing, especially at an initial shaping stage when extrusion shaping is conducted.

Please replace the paragraph starting at page 2, line 19 with the following amended

paragraph:

Other objects of the present invention are to provide an acrylic rubber composition

characterized as being not scorched at a time of filling the rubber composition in a mold,

exhibiting good releasability from the mold, and having no mold flash remaining in the mold, in

a step of molding such as compression molding, transfer molding or injection molding; and

exhibiting good scorch stability resistance in an initial shaping stage and giving an extruded

article having a smooth surface, in a step of extrusion shaping; and further to provide a shaped

article made by shaping the acrylic rubber composition.

Please replace the paragraph starting at page 3, line 14 with the following amended

paragraph:

In a second aspect of the present invention, there is provided a erossslinkable

crosslinkable acrylic rubber composition comprising the above-mentioned acrylic rubber and a

crosslinking agent.

Please replace the paragraph starting at page 10, line 34 with the following amended

paragraph:

The acrylic rubber of the present invention preferably has a Mooney viscosity (ML_{1+4} ,

100°C) in the range of 10 to 80, more preferably 20 to 70 and especially preferably 30 to 70. If

the Mooney viscosity is too small, a crosslinkable rubber composition tends to have poor

processability and a crosslinked rubber product is liable to have poor mechanical strength. In

3

MSW/GMD/mua

contrast, if the Mooney viscosity is too large, a erosslinkable rubber composition

tends to have poor processability.

Please replace the paragraph starting at page 11, line 6 with the following amended

paragraph:

The acrylic rubber of the present invention is used as a erosslinkable crosslinkable

acrylic rubber composition comprising the acrylic rubber and a crosslinking agent.

crosslinkable acrylic rubber composition is crosslinked into a crosslinked rubber product, which

can be used for various rubber parts.

Please replace the header on page 11, line 11 with the following amended header:

Crosslinkable Acrylic Rubber Composition

Please replace the paragraph starting at page 11, line 12, with the following

amended paragraph:

The erosslinkabe crosslinkable acrylic rubber composition of the present invention

comprises the above-mentioned acrylic rubber and a crosslinking agent. The crosslinking agent

used may be any crosslinking agents conventionally used for acrylic rubber, but, amine

compounds capable of easily forming a crosslinked structure by the reaction with a carboxyl

group in the monomer units (A) are preferably used. A polyamine compound is especially

4

preferable.

MSW/GMD/mua

Application No. 10/517,705 Amendment dated February 3, 2006 Reply to Office Action of October 3, 2005

Please replace the paragraph starting at page 13, line 11 with the following amended paragraph:

The crosslinkable acrylic rubber composition may further comprise a monamine monoamine compound to prevent or suppress undesirable sticking to a metal occurring when the rubber composition is roll-milled or Banbury-treated, and thus, to improve the processability.

Please replace the paragraph starting at page 13, line 16 with the following amended paragraph:

The monoamine compound used includes aromatic monamine monoamine compounds and aliphatic monoamine compounds. These monoamine compounds may be any of monoprimary amine compound, mono-secondary amine compounds and mono-tertiary amine compounds. The monoamine compounds may be used either alone or as a combination of at least two thereof. In the case when the monoamine compound is used alone, a mono-primary amine compound is preferable. In the case when at least two monoamine compounds are used in combination, a combination of an aliphatic mono-secondary amine compound with an aliphatic mono-tertiary amine compound is preferable.

Please replace the paragraph starting at page 21, line 12 with the following amended paragraph:

The acrylic rubber A contained 58% of ethyl acrylate units, 40% of n-butyl acrylate units and 2% of monocyclohexyl fumarate units, and had a Mooney viscosity (ML₁₊₄, 100°C) of 45. The composition of acrylic rubber A is shown in Table 1. 100 parts of the acrylic rubber A, 60 parts of carbon black (classified as N550 according to ASTM D1765), 2 parts of stearic acid softener). and 2 of 4.4'-bis($\alpha.\alpha$ -(dispersant for carbon black. and parts dimethylbenzyl)diphenylamine (antioxidant) were kneaded together at 50°C by a Banbury mixer. To the thus-obtained mixture, 0.5 part of hexamethylenediamine carbamate (aliphatic diamine the mixture was kneaded together at 40°C by an open roll to obtain a erosslinkable crosslinkable

acrylic rubber composition.

Please replace the paragraph starting at page 21, line 26 with the following amended

paragraph:

Mooney scorch time (t5), residual flashes and fluidity (mold filling property) of the

erosslinkabe erosslinkable acrylic rubber composition, and dry physical properties (tensile

strength, elongation and hardness), heat resistance (change in elongation and change in hardness)

and permanent set of a crosslinked rubber product thereof were evaluated. The results are shown

in Table 2.

Please replace the paragraph starting at page 21, line 34 with the following amended

paragraph:

By the same procedures as mentioned in Example 1, a erosslinkable crosslinkable acrylic

rubber composition was prepared from the acrylic rubber A wherein 1.3 parts of 4,4'-

diaminodiphenyl ether (aromatic diamine) was used instead of 0.5 part of hexamethylenediamine

carbamate for the preparation of the rubber composition. All other conditions remained the

same. Characteristics of the rubber composition were evaluated. The evaluation results are

shown in Table 2.

Please replace the paragraph starting at page 22, line 12 with the following amended

paragraph:

By the same procedures as mentioned in Example 1, a erosslinkabe-crosslinkable acrylic

rubber composition was prepared from the acrylic rubber B wherein 0.5 part of 4,4'-

diaminodiphenyl ether (aromatic diamine) was used instead of 0.5 part of hexamethylenediamine

MSW/GMD/mua

Docket No.: 1600-0157PUS1

6

carbamate for the preparation of the rubber composition. All other conditions remained the

same. Characteristics of the rubber composition were evaluated. The evaluation results are

shown in Table 2.

Please replace the paragraph starting at page 22, line 29 with the following amended

paragraph:

By the same procedures as mentioned in Example 1, a erosslinkable crosslinkable acrylic

rubber composition was prepared from the acrylic rubber C and characteristics of the rubber

composition were evaluated. The evaluation results are shown in Table 2.

Please replace the first full paragraph on page 23 with the following amended

paragraph:

As seen from Table 2, an acrylic rubber not containing units of a butenedioic acid

monoester monomer having an alicyclic structure (Comparative Example 1) gives a eroslinkable

crosslinkable acrylic rubber composition exhibiting an initial Mooney scorch time (t5) of shorter

than 5 minutes and having poor process-stability.

Please replace the paragraph starting at page 23, last line with the following

amended paragraph:

In contrast, the acrylic rubber of the present invention (Example 1) gives a eroslinkable

crosslinkable acrylic rubber composition exhibiting an initial Mooney scorch time (t5) of longer

than 5 minutes and having good scorch stability. This advantageous effect is enhanced in the

case when an aromatic diamine is used as a crosslinking agent (Examples 2 and 3). Further, the

acrylic rubber of the present invention gives a crosslinkable acrylic rubber composition having

7

MSW/GMD/mua

Docket No.: 1600-0157PUS1

Reply to Office Action of October 3, 2005

good mold filling property and giving a crosslinked rubber article exhibiting sufficiently reduced

permanent set and good heat stability (Examples 1-3).

Please replace the paragraph starting at page 24, line 26 with the following amended

paragraph:

The acrylic rubber D contained 38% of ethyl acrylate units, 40% of n-butyl acrylate units,

20% of 2-methoxyethyl acrylate units and 2% of monocyclohexyl maleate units, and had a

Mooney viscosity (ML₁₊₄, 100° C) of 45. The composition of acrylic rubber D is shown in Table

1. 100 parts of the acrylic rubber D, 60 parts of carbon black (classified as N550 according to

ASTM D1765), 2 parts of stearic acid (dispersant for carbon black, and softener), and 2 parts of

4,4'-bis(α,α-dimethylbenzyl)- diphenylamine (antioxidant) were kneaded together at 50°C by a

Banbury mixer. To the thus-obtained mixture, 0.5 part of 4,4'-diaminodiphenyl ether (aromatic

polyamine crosslinking agent) and 2 parts of di-o-tolylguanidine (crosslinking accelerator) were

added, and the mixture was kneaded together at 40°C by an open roll to obtain a erosslinkabe

crosslinkable acrylic rubber composition.

Please replace the paragraph starting at page 25, line 5 with the following amended

paragraph:

Mooney scorch time (t5) and extrusion shapability of the erosslinkable crosslinkable

acrylic rubber composition, and dry physical properties (tensile strength, elongation and

hardness), heat resistance (change in elongation and change in hardness) and permanent set of a

crosslinked rubber product thereof were evaluated. The results are shown in Table 3.

MSW/GMD/mua

8

Docket No.: 1600-0157PUS1

Please replace the paragraph starting at page 25, line 21 with the following amended

paragraph:

By the same procedures as mentioned in Example 4, a erosslinkable erosslinkable acrylic

rubber composition was prepared from the acrylic rubber E and characteristics of the rubber

composition were evaluated. The evaluation results are shown in Table 3.

Please replace the paragraph starting at page 25, line 35 with the following amended

paragraph:

By the same procedures as mentioned in Example 4, a erosslinkable crosslinkable acrylic

rubber composition was prepared from the acrylic rubber F and characteristics of the rubber

composition were evaluated. The evaluation results are shown in Table 3.